

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	04/17/2019 04/17/2019	Luz Dial

LM Start		Rating **	A	Issue No.	20
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_NA0005_01_s _ 2013_20				
Comment Code					
Inspector Comment					
City of Sacramento has copies of the levee O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	22
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_NA0005_01_s _ 2013_22				
Comment Code					
Inspector Comment					
City of Sacramento maintains a stockpile of Flood Fight response material.					

No Photos

LM Start		Rating **	A	Issue No.	23
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_NA0005_01_s _ 2013_23				
Comment Code					
Inspector Comment					
City of Sacramento has a written response plan and has taken flood fight methods training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Left	3.67	04/17/2019 04/17/2019	Luz Dial

LM Start	0.84	Rating **	A/W	Issue No.	83
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.578955 °	38.578955 °
				-121.507703 °	-121.507703 °
DWR ID	DWR_NA0005_01_f_2018_83				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Removal of log next to floodwall could not be verified due to high water.					

Photo 1 of 1 : SP_2019_NA0005_251_83_20190307_00008.jpg



Tree debris against floodwall. Fall 2018

LM Start	1.12	Rating **	M	Issue No.	73
LM End	1.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.575255 °	38.575095 °
				-121.509765 °	-121.509895 °
DWR ID	DWR_NA0005_01_s_2019_73				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.12	Rating **	M	Issue No.	77
LM End	1.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.575255 °	38.575095 °
				-121.509765 °	-121.509895 °
DWR ID	DWR_NA0005_01_s_2019_77				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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LM Start	1.19	Rating **	M	Issue No.	79
LM End	1.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.574460 °	38.574355 °
				-121.510495 °	-121.510570 °
DWR ID	DWR_NA0005_01_s_2019_79				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.25	Rating **	M	Issue No.	81
LM End	1.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.573732 °	38.573585 °
				-121.511178 °	-121.511367 °
DWR ID	DWR_NA0005_01_s_2019_81				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.31	Rating **	C	Issue No.	74
LM End	1.31	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.573096 °	38.573096 °
				-121.511813 °	-121.511813 °
DWR ID	DWR_NA0005_01_f_2018_74				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

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Unit No. 01 Sacramento River	Left	3.67	04/17/2019 04/17/2019	Luz Dial

LM Start	1.31	Rating **	M	Issue No.	72
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.573169 °	38.572277 °
				-121.511998 °	-121.513063 °
DWR ID	DWR_NA0005_01_s_2019_72				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 58.5 L Status: Eroding 2017 Field Notes: Slump sections along mid bank. (SCDU-03). Site History: 2008 - Oversized levee, should be repaired under maintenance. 2009 - Shallow slumps at the mid bank. 2010 - Some minor erosion at the toe, likely from wave wash. Some new shallow slumps. 2011 - One new tree has fallen. 2013 - Erosion continues on the slope surface, site extended upstream.					

No Photos

LM Start	1.36	Rating **	M	Issue No.	84
LM End	1.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.572482 °	38.571930 °
				-121.512550 °	-121.513130 °
DWR ID	DWR_NA0005_01_s_2019_84				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	04/17/2019 04/17/2019	Luz Dial

LM Start	1.46	Rating **	A/W	Issue No.	91	
LM End	1.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.571397 °	38.571397 °	
				-121.513797 °	-121.513797 °	
DWR ID	DWR_NA0005_01_f_2017_75					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:50						
Site Designation:SCDU-03						
Repair Type: Erosion						
Rating:Critical						
Field Date:7/18/2017						
Notes:						

LM Start	1.46	Rating **	A/W	Issue No.	91 (cont)
LM End	1.46	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL_SP_2019_50_1745.jpg



Photo 2 of 3 : LEVAL_SP_2019_50_1748.jpg



* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
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Unit No. 01 Sacramento River	Left	3.67	04/17/2019 04/17/2019	Luz Dial

LM Start	1.46	Rating **	A/W	Issue No.	91 (cont)
LM End	1.46	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.571397°	38.571397°	
			-121.513797°	-121.513797°	
DWR ID	DWR_NA0005_01_f_2017_75				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:50					
Site Designation:SCDU-03					
Repair Type: Erosion					
Rating:Critical					
Field Date:7/18/2017					
Notes:					

Photo 3 of 3 : LEVAL_SP_2019_50_1749.jpg



LM Start	1.49	Rating **	M	Issue No.	85
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.571203°	38.571203°	
			-121.514160°	-121.514160°	
DWR ID	DWR_NA0005_01_s_2019_85				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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Unit No. 01 Sacramento River	Left	3.67	04/17/2019 04/17/2019	Luz Dial

LM Start	1.69	Rating **	M	Issue No.	86
LM End	1.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.568677 °	38.568677 °
				-121.515972 °	-121.515972 °
DWR ID	DWR_NA0005_01_s _ 2019_86				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	1.99	Rating **	M	Issue No.	87
LM End	3.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.564443 °	38.541075 °
				-121.516140 °	-121.511413 °
DWR ID	DWR_NA0005_01_s _ 2019_87				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0005_251_87_20190418_00108.jpg



View looking downstream at tall waterside vegetation. Spring 2019

LM Start	2.31	Rating **	A/W	Issue No.	82
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.559767 °	38.559767 °
				-121.515264 °	-121.515264 °
DWR ID	DWR_NA0005_01_s _ 2016_82				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
No animal holes were visible during this inspection due to vegetation.					

Photo 1 of 1 : SP_2019_NA0005_251_82_20190307_00007.jpg



View of rodent hole on waterside slope. Fall 2017.

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+ Issue Type
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Unit No. 01 Sacramento River	Left	3.67	04/17/2019 04/17/2019	Luz Dial

LM Start	2.38	Rating **	M	Issue No.	88
LM End	2.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.558875 °	38.558038 °	
			-121.514662 °	-121.514272 °	
DWR ID	DWR_NA0005_01_s _ 2019_88				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	2.43	Rating **	M	Issue No.	89
LM End	2.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.558208 °	38.558208 °	
			-121.514308 °	-121.514308 °	
DWR ID	DWR_NA0005_01_s _ 2019_89				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	2.45	Rating **	A/W	Issue No.	8
LM End	2.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.557937 °	38.557937 °	
			-121.514237 °	-121.514237 °	
DWR ID	DWR_NA0005_01_s _ 2012_8				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

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Unit No. 01 Sacramento River	Left	3.67	04/17/2019 04/17/2019	Luz Dial

LM Start	2.80	Rating **	C	Issue No.	75
LM End	2.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.553114 °	38.553114 °	
			-121.512566 °	-121.512566 °	
DWR ID	DWR_NA0005_01_f_2018_75				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree log and limbs along levee slope.					

No Photos

LM Start	2.86	Rating **	M	Issue No.	90
LM End	2.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.552282 °	38.552073 °	
			-121.512223 °	-121.512173 °	
DWR ID	DWR_NA0005_01_s_2019_90				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

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Unit No. 01 Sacramento River	Left	3.67	04/17/2019 04/17/2019	Luz Dial

LM Start	2.89	Rating **	A/W	Issue No.	71
LM End	2.90	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.551764 °	38.551578 °
				-121.512395 °	-121.512336 °
DWR ID	DWR_NA0005_01_s_2019_71				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 56.6 L					
Status: Eroding					
2017 Field Notes: Upstream portion repaired by locals.					
Site History: 1997 - Erosion at pump station, concrete debris and plastic showing. 2000 - Separation scour of bank due to poor transition.					
2004 - New large tree pop out; city dumped fill dirt/rock into hole.					
2006 - Minor new erosion at top of bank. 2010 - Some new rock placed in tree pop-out. 2011 - A large tree has fallen and flood fighting was performed by the city on the upper levee slope. 2012 - Small rock placed in hole from tree popout.					

No Photos

LM Start	3.51	Rating **	M	Issue No.	78	
LM End	3.51	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.543211 °		38.543211 °
				-121.510168 °		-121.510168 °
DWR ID	DWR_NA0005_01_f_2018_78					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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LM Start	3.55	Rating **	M	Issue No.	80
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.542698 °	38.542698 °	
			-121.510532 °	-121.510532 °	
DWR ID	DWR_NA0005_01_f_2018_80				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

*** Location**
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+ Issue Type
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